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801-538-7200

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801-537-3300

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UTAH DEPARTMENT OF NATURAL RESOURCES



Left to Right: Sid Groll, Mike Styler, Robyn Pearson, Tammy Kikuchi, Jason Curry, Betty Barela, Darin Bird

EXECUTIVE TEAM

Michael Styler - executive director
801-538-7201 mikestyler@utah.gov

Darin Bird - deputy director
801-538-7201 darinbird@utah.gov

Robyn Pearson - deputy director
801-538-7201 robynpearson@utah.gov

Jason T. Curry - public affairs coordinator
801-538-7302 jasoncurry@utah.gov

Sidney Groll - law enforcement director
801-538-5418 sidgroll@utah.gov

Tammy Kikuchi - communications director/PIO
801-538-7326 tkikuchi@utah.gov

Betty Barela - administrative secretary
801-538-7201 bettytbarela@utah.gov

EXECUTIVE DIRECTOR'S MESSAGE

ON WATERSHEDS...

"Healthy watersheds deliver five major results: 1) increased water yield to our streams, reservoirs and underground aquifers, 2) naturally filtered pristine water free of silt, ash or salts, 3) reduced wildland fire fuels and expanded healthy forests, 4) enlarged forage output for livestock and wildlife and 5) augmented critical habitat enabling sensitive species to thrive.

The Utah Department of Natural Resources focuses on watershed health to ensure that landscapes are productive and useful for multiple use. Our goal is to manage our watersheds to maximize their natural productivity."

Mike Styler - DNR Executive Director

ADMINISTRATIVE TEAM

Linda Beus - human resources director
801-538-7319

Dennis Carver - finance director
801-538-7307

Lloyd Johnson - Information systems director
801-538-7244



2 *Linda Beus, Dennis Carver*

THE MISSION OF DNR

To sustain and enhance the Utah quality of life today and tomorrow through the coordinated and balanced stewardship of our natural resources.

DEPARTMENT GOALS

●GOAL: Customer Service

Maintain quality customer service with the public, Executive Branch and the Legislature.

Measures: The various divisions will conduct annual surveys with the public, the Legislature and the Executive Branch.

●GOAL: Elimination Of DNR Silos

To increase organizational efficiency and effectiveness by discovering new ways to share professional expertise, assets and financial resources across DNR division organizational lines and across Department organizational lines.

Measures: Success towards this goal will be measured in qualitative terms by instances where positive changes have been implemented. Such as the employee exchange done in the area of finance this year.

●GOAL: Building The Bench

Provide an active plan for the replacement of key positions within DNR in preparation for the impending retirement of the baby boomers over the next 5 to 10 years. This goal also includes the infusion of new blood into the organization while maintaining a balance of solid promotional opportunities for existing employees.

Measures: Success in this area will be measured by the quality and quantity of educational outreach programs established in each division. The number of days it takes to fill a position once it is advertised will be used to determine the effectiveness of the outreach programs. Divisions will sample pay ranges and compare these ranges to the organizations competing in the same labor markets to determine the effectiveness of pay structures.

●GOAL: Enhance Revenue.

Capitalize on opportunities in key business areas in an effort to maximize general fund appropriations while looking for new revenue sources in providing quality interactive natural resource opportunities.

Measures: A format will be developed to measure each capital expenditure project. All projects should be accompanied by an authority for expenditure form (AFE.) This form will provide revenue and expense forecasts indicating how the project will serve to improve the financial position of the requesting agency. The economic analysis will include the cost of capital. Ultimate success will be measured in each business operation where net profit margins show improvement.

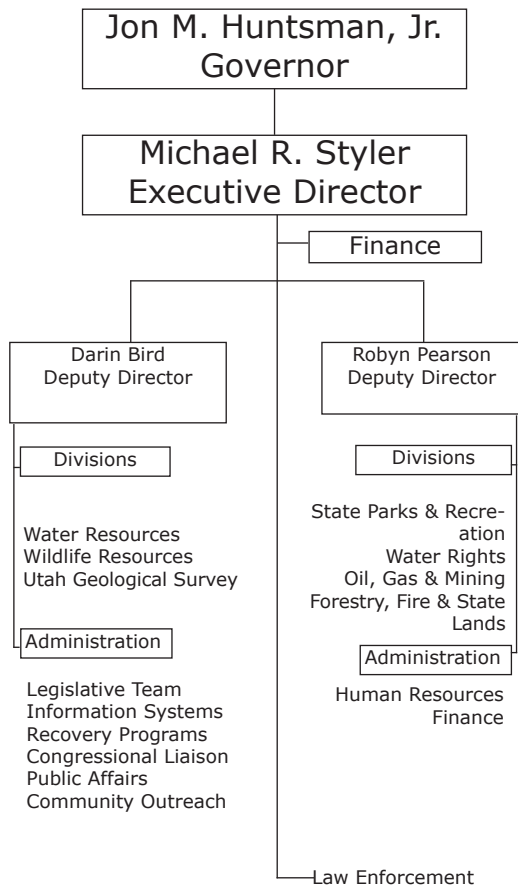


Above: Governor Huntsman consulting with land managers during a tour of Tabby Mountain. DNR hopes to maintain the 28,000 acre block of land for wildlife habitat, recreation use, and as a forest management model.



Left: DNR employees from various divisions taking part in an avalanche training exercise. Employees often access dangerous terrain during all seasons, and safety is of utmost importance.

ORGANIZATIONAL CHART



DNR ANNUAL EMPLOYEE AWARD WINNERS



Employee Of The Year Award:
Gerry Hoyt (Parks & Recreation) & Jennifer Gregerson (Forestry, Fire & State Lands)



DNR Outreach Award:
John Schmidt, Parks & Recreation



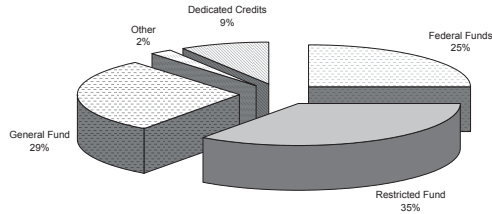
Executive Director's Award:
Rory Reynolds
Wildlife Resources



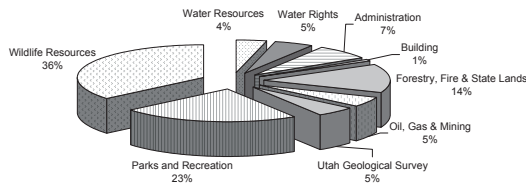
Manager of the year Award:
Joan Felice
Wildlife Resources

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE
\$145,134,200



EXPENDITURES



2005/2006 HIGHLIGHTS

● **In 2005-06 with the support of the Utah Legislature and the \$2 million appropriation to DNR the Governor's Watershed Initiative has caused over 120 watershed restoration projects** statewide involving over 125,000 acres on private, state and federal lands. The \$2 million appropriation has been successfully leveraged with money from state and federal agencies, conservation organizations, industry and private landowners to total \$8 million in on-the-ground work. In 2006-07 with continued support from the Legislature another 143,000 acres are being restored by leveraging \$2.5 million from the Legislature into over \$11.4 million in on-the-ground work. The long-term results from this effort will be measured in the reduced costs associated with fighting wildfires, reduced soil loss from erosion, improved water quality and yield, wildlife habitat, agricultural production and resistance to invasive plant species.

● **A new logo identity was developed** for the department. The existing logo had been in place for nearly 30 years. The new look consists of a family of eight logos, one for the department as well as one for each division.

● **In an inter-division cooperative agreement, the Divisions of Wildlife Resources and Parks & Recreation** created a new service that allows licensed anglers to enter state parks for a discounted entry fee.

● **In a partnership between the Divisions of Oil, Gas & Mining and Wildlife Resources,** two wildlife biologists were put in place to more easily provide wildlife assessments needed to explore and develop the state's Oil and Gas resources.



DIVISION OF FORESTRY, FIRE & STATE LANDS

1594 W. North Temple, Suite 3520
PO Box 145703
Salt Lake City, Utah 84114-5703
801-538-5555
801-533-4111 (fax)
www.ffsl.utah.gov

EXECUTIVE TEAM

Joel Frandsen - state forester/director
801-538-5530 joelfrandsen@utah.gov

Dick Buehler - deputy director/legislative liaison
801-538-5389 dickbuehler@utah.gov

Dave Grierson - strategic planner
801-538-5504 davegrierson@utah.gov

Jim Springer - public information officer
801-538-5324 jimspringer@utah.gov

Jennifer Gregerson - administrative secretary
801-538-5418 jennifergregerson@utah.gov



Left to Right: Dick Buehler, Dave Grierson, Jim Springer, Jennifer Gregerson, Joel Frandsen

MISSION STATEMENT

Manages all state-owned nontrust lands, state forestry and fire control programs, and derives optimum benefit from resources held in the public trust.

FORESTRY, FIRE & STATE LANDS ADVISORY COUNCIL

Dan Tuttle, Chair
Box Elder, Salt Lake, Davis,
Weber and Tooele counties

Genevieve Atwood
Box Elder, Salt Lake, Davis,
Weber and Tooele counties

Corey Milne
Box Elder, Salt Lake, Davis,
Weber and Tooele counties

D. Robert Carter
Utah County

Joseph Hull
state-at-large

Stephen Boyden
Box Elder, Salt Lake, Davis,
Weber and Tooele counties

Frederick Baker, Jr.
Cache County

J. Kent Taylor
state-at-large

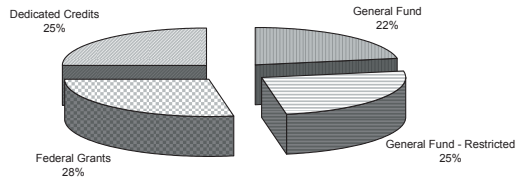
Daren Tuttle
state-at-large

Norman Weston
Rich County

Jim Springer,
advisory council coordinator
(801) 538-5324

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE
\$19,745,011

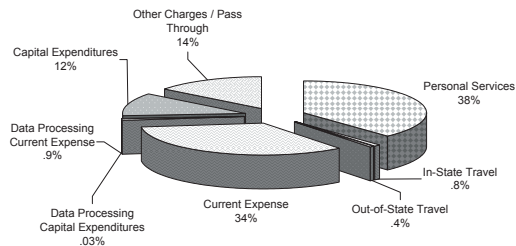


2005/2006 HIGHLIGHTS

•A disturbing trend in wildland fire protection is the increasing threat to communities in the wildland urban interface coupled with the increased costs associated with suppressing fires that threaten them. Approximately **one out of every six fires occurred in the urban interface.**

•In cooperation with our federal and local partners, **firefighters responded to more than 720 fires that burned more than 275,000 acres.** Six of those fires required greater resources to control, known as Type II fires, while three required management at the federal level known as Type I. **Early cost estimate for all agencies combined is \$17 million while the state's share is roughly \$8 million.**

EXPENDITURES



Above: Lone Peak Conservation Center brush crew member works to thin vegetation at National Fire Plan site in northern Utah.

Left: 2006 Arbor Day Poster Contest winner Lisa Lee, 6th grader from Wasatch Elementary, views artwork with Governor Jon Huntsman, Jr.



Left: Barbara Gardner works with Benson Mill restoration specialist Jay Fitzwater to supply lumber from National Fire Plan projects for use at the historic mill site.

Below: Staff and Forestry, Fire and State Lands Advisory Council members examine division efforts to help control invasive vegetation at Farmington Bay Wildlife Management Area.



2005/2006 HIGHLIGHTS

•**Continuing monitoring and education are key to protecting Utah's water quality.** The Division completed its first audit of logging activities and found that operators are properly applying Forest Water Quality Guidelines. The audit determined field **practices are 79-percent effective** in protecting forest, soil and water resources.

•**The Division granted more than \$46,000 to Utah communities for urban forestry projects.** Participating communities matched those funds with more than \$142,000 of cash, in-kind services, donations and volunteer time. Meanwhile, 44 Utah communities received recognition as a Tree City USA. **More than 50% of Utah's population now lives in a Tree City USA.**

•**More than 40,000 students participated** in the Division's annual Arbor Day Poster contest. Awards were presented during the State Celebration held at Red Butte Gardens. The contest is part of a tree ecology education program.

•**Lone Peak crews completed thousands of hours suppressing fires and protecting communities** at risk to wildfire here at home, as well as in Oklahoma and Texas, and assisted in hurricane relief efforts.

•**Landowners on the north slope of the Uinta Mountains** once again joined with the Division and USDA Forest Service in continuing an unprecedented **cost-share program to treat forested lands.** The treatments will reduce damage from the mountain pine beetle. Also, a cooperative project between the Division, USDA Forest Service, Uinta National Forest, BYU Aspen Grove and Sundance is preventing the Douglas-fir Beetle from killing more trees in and around Sundance.

ON WATERSHEDS...

"Healthy forests are essential to our state's watersheds, and our division's major programs: forest stewardship, urban and community forestry, wildland fire protection, forest health, and our state nursery all directly contribute to improving and maintaining watershed health."

Joel Frandsen – State Forester/Director



Left: Forester checks tree for insect infestation, a growing problem throughout much of Utah.

Above: New Wildfire Service Center at Lone Peak Conservation Center was dedicated in honor of first State Forester Paul Sjoblom.

SERVICES AND FUNCTIONS

●Sovereign Lands

Administers private and public uses of state-owned lakebed and riverbed lands in accordance with public trust doctrine.

●Forest Stewardship/Agro Forestry

Assists private landholders in managing resources. Services include timber marking, windbreaks, water quality, wildlife habitat improvement and financial assistance to implement resource management plans.

●Urban and Community Forestry

Urban foresters provide technical assistance and promote the benefits of trees in our cities and towns.

●Wildland Fire Protection

Provides wildland fire prevention and protection on Utah's unincorporated private lands. Includes wildland fire suppression training and fire equipment grants to community and volunteer fire departments.

●Lone Peak Conservation Center

Provides trained crews to fight wildland fires, complete natural resource projects and work in the state conservation nursery. The center produces 1-million seedlings each year for Utah's conservation needs.

REGIONAL OFFICES

NORTHEASTERN AREA

Dale Jablonski, area manager

152 East 100 North
Vernal, Utah 84078-2126
(435) 781-5463
dalejablonski@utah.gov

CENTRAL AREA

Marvin Turner, area manager

1311 South Airport Road
Richfield, Utah 84701-7006
(435) 896-5697
marvinturner@utah.gov

SOUTHWESTERN AREA

Ron Wilson, area manager

585 North Main Street
Cedar City, Utah 84720-2643
(435) 586-4408
ronwilson@utah.gov

SOUTHEASTERN AREA

Bill Zanotti, area manager

1165 South Highway 191, Suite 6
Moab, Utah 84532-3002
(435) 259-3766
billzanotti@utah.gov

WASATCH FRONT AREA

Barbara Gardner, area manager

1594 West North Temple, Suite 3520
PO Box 145703
Salt Lake City, Utah 84114-5703
(801) 538-5351
barbaragardner@utah.gov

BEAR RIVER AREA

Blain Hamp, area manager

1780 N. Research Parkway, Suite 104
North Logan, Utah 84341-1940
(435) 752-8701
blainhamp@utah.gov

LONE PEAK CONSERVATION CENTER

Glenn Beagle, coordinator

271 Bitterbrush Lane
Draper, Utah 84020-9599
(801) 571-0900
glennbeagle@utah.gov



DIVISION OF OIL, GAS & MINING

1594 W. North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (fax)
www.ogm.utah.gov

EXECUTIVE TEAM

John Baza - director
801-538-5334

johnbaza@utah.gov

Mary Ann Wright - Associate Director for Mining
801-538-5297 maryannwright@utah.gov

Gil Hunt - associate director for oil and gas
801-538-5334 gilhunt@utah.gov

Steve Schneider - legislative liaison
801-538-5328 steveschneider@utah.gov

Jim Springer - public information officer
801-538-5324 jimspringer@utah.gov

Paula Dupin-Zahn - financial manager
801-538-5309 pauladupinzahn@utah.gov

Julie Carter - administrative secretary
801-538-5277 juliecarter@utah.gov



Left to Right: John Baza, Julie Carter, Gil Hunt, Paula Dupin-Zahn, Steve Schneider, Mary Ann Wright, Jim Springer

MISSION STATEMENT

Monitors and facilitates exploration for and development of oil, gas, coal and other mineral resources. When exploration and developmental activities are completed, the division ensures that oil and gas wells are properly abandoned and mining sites are satisfactorily reclaimed.

BOARD OF OIL, GAS & MINING

J. James Peacock, chair, oil and gas
Salt Lake City

Robert J. Bayer, mining
Salt Lake City

Jake Y. Harouny, oil and gas
Salt Lake City

Douglas E. Johnson, mining
Spring City

Kent R. Peterson, vice-chair
mineral and royalty interests
Ferron

Samuel C. Quigley, geology
Price

Jean Semborski, environmental
Price

Julie Carter, board secretary
Salt Lake Office

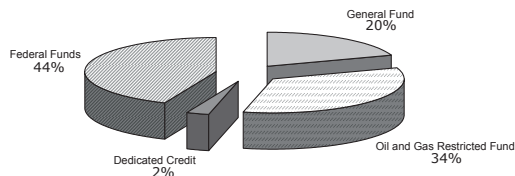
ON WATERSHEDS...

"It's important for citizens to know that oil, gas and mining operations can occur in our watersheds without significant environmental degradation and this division plays a significant role in ensuring that essential resources are recovered while watersheds remain protected."

John Baza, Division Director.

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE
\$7,849,091

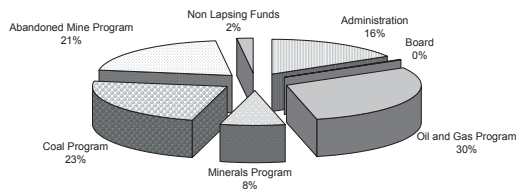


2005/2006 HIGHLIGHTS

•Coal mining has been a thriving and important industry in Utah for more than 100 years. Currently the Coal Program **oversees 33 permitted sites**: 12 active mines, two active loadouts, six reclaimed mines, three mines and one loadout in temporary cessation, two mines and one loadout inactive, and six forfeiture sites.

•This year the Coal Regulatory Program has **approved 49 amendments**, renewed six permits, conducted eleven midterm reviews, processed eight exploration plans, and issued thirteen violations. **Staff conducted 341 requisite inspections**. Six lease extensions have been approved **adding more than 7400 acres to existing mine permits**.

EXPENDITURES



Above: Board of Oil, Gas and Mining discuss oil and gas issues on site.

Left: Board of Oil, Gas and Mining tour mine facilities in Lisbon Valley, Utah.



Left: Staff members examine drilling equipment at oil and gas site.

Below: Staff members Clint Dworshak and Gil Hunt explain geology at oil site near Manti, Utah.



2005/2006 HIGHLIGHTS

- Mineral mining also made an important contribution to Utah's economy. Minerals Regulatory Program staff **oversaw 654 mineral mine sites, administered 294 reclamation bonds, conducted 285 site inspections and issued 41 enforcement actions.**

- While current laws require mining sites to be reclaimed, such was not the case throughout much of Utah's history. As a result thousands of abandoned mine openings, many of which pose a public safety hazard, are scattered throughout the state. During the last fiscal year the Abandoned Mine Reclamation Program **sealed 241 dangerous mine openings** in four projects in San Juan, Uintah, Juab, and Tooele counties. Efforts continue to educate the public about the dangers of abandoned mines with the **distribution of workbooks and "Stay Out and Stay Alive!" DVD's to 4th grade classes** throughout Utah.

- Demands** placed upon the Oil and Gas program continued to **increase** due to an upsurge in industry exploration and development. In FY-05 the program approved 2002 applications to drill compared to 1329 applications approved in the

preceding fiscal year. As a result Utah has seen its **greatest oil production since 1998** with more than 16 million barrels of oil produced in 2005. **Figures for 2006 are on track to exceed that figure.** Meanwhile, natural gas production is also up. In 2005 more than 313 billion cubic feet of gas was produced and again 2006 figures are on track to exceed that number. However, coalbed methane production continued its downward trend from more than 89 billion cubic feet in 2004 to 81 billion cubic feet in 2005.

- The division oversaw more than **6,300 producing oil and gas wells in FY-05 compared to just over 5,800 in FY-04.** Also, during FY-05 staff conducted 7,650 inspections compared with 3,970 the previous fiscal year.

- The Board of Oil, Gas and Mining presented **eight Earth Day Awards** to companies who exceeded regulatory requirements while developing essential natural resources. Earth Day Awards are presented each year in April.



Staff explain division functions and responsibilities to interested citizens during Vernal's Energy Days.

SERVICES AND FUNCTIONS

●Oil and Gas Permitting

Collects, processes and maintains information on ownership, production, disposition and status of oil and gas exploration and production wells and facilities.

●Coal and Mineral Permitting

Issues permits to coal and mineral mining operations to ensure their compliance with environmental laws and regulations.

●Injection Wells and Disposal Facilities

Permits and inspects injection and disposal wells and surface water disposal pits. Water is forced into injection wells to aid recovery of additional oil assets. Disposal wells are usually depleted wells and used to store unusable water underground. The division enforces regulations concerning disposal of produced water and wastes from oil and gas exploration and production.

●Appeals

Provides first level of administrative appeal to public on minerals, coal, and oil and gas projects when there are objections.

●Abandoned Mine Reclamation

Protects public health, safety and environment from unpermitted abandoned mine problems. Provides information to schools on hazards of abandoned mines.

●Earth Day Awards

Honors industry for reclamation work and innovations in environmental technology that go beyond what is required.

REGIONAL OFFICES

PRICE FIELD OFFICE

Karl Houskeeper, regional contact

455 West Railroad Ave

Price, Utah 84501

(435) 613-1146 ext. 201

435-613-1152 fax

karlhouskeeper@utah.gov

ROOSEVELT OFFICE

Dave Hackford, regional contact

30 West 425 South (330-11)

Roosevelt, Utah 84066-3706

(435) 722-3417

davehackford@utah.gov



Staff and guests commemorate the Oil and Gas Program's 50 year anniversary at an open house held in the Museum of Natural History, Vernal, Utah.



DIVISION OF PARKS & RECREATION

1594 W. North Temple, Suite 116
PO Box 146001
Salt Lake City, Utah 84114-6001
801-538-7220
801-538-7378 (fax)
www.stateparks.utah.gov

EXECUTIVE TEAM

Mary Tullius - director
(801) 538-7418 marytullius@utah.gov

Bruce Hamilton - deputy director
(801) 538-7323 brucehamilton@utah.gov

Mark Forbes - deputy director
(801) 538-7355 markforbes@utah.gov

Deena Loyola - public affairs coordinator
(801) 538-7347 deenaloyola@utah.gov

Wendy Griffith - administrative secretary
(801) 538-7418 wendygriffith@utah.gov



Left to right: Deena Loyola, Bruce Hamilton, Mary Tullius, Mark Forbes, Wendy Griffith.

MISSION STATEMENT

Enhancing the quality of life in Utah through parks, people and programs serving the public.



Great Salt Lake State Park Marina hosted the Special Olympics Polar Plunge fundraising event. During the event, DNR Executive Director, Mike Styler took the plunge into the icy water.

BOARD OF PARKS & RECREATION

Scott Parson (chair)
Davis, Weber and Morgan counties

Karl Bentley (co-chair)
Emery, Carbon, Grand and
San Juan counties

Bill Bleak
Salt Lake, Tooele and Summit counties

Glenn Greenhault
Utah, Juab, Wasatch and
Millard Counties

Lois Bulloch
Iron, Washington and Beaver counties

Gael Hill
Kane, Garfield, Piute, Sevier,
Sanpete and Wayne counties

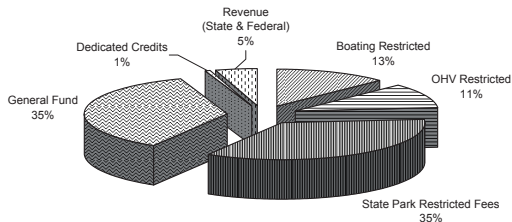
Joe Hull
at-large

Eli Anderson
Box Elder, Cache and Rich counties

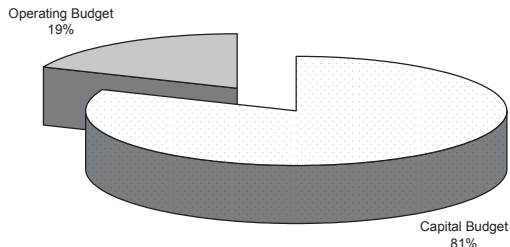
Irene Hansen
Uintah, Dagget and Duchesne counties

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE \$27,645,006



EXPENDITURES



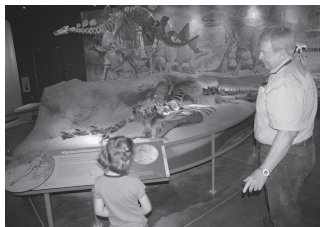
2005/2006 HIGHLIGHTS

- **Phase one of construction completed at East Canyon State Park.** Improvements include a new boat ramp and renovated 33-site campground.
- The Gold Course at Soldier Hollow Golf Course at Wasatch Mountain State Park was named one of **America's Best New Courses by Golf Digest**. The course also hosted the Utah State Amateur Tournament.
- **Coordinated statewide county meetings to build partnerships** with local governments and private sector to promote state parks and surrounding communities.
- **Design and construction of enhanced motocross trails** at the Jordan River Off-Highway Vehicle Center.
- **Construction of a new visitor center, amphitheater, and restrooms completed** at Goblin Valley State Park.



Above: Ranger Chris Quick provides a boater with information on displaying registration

Left: Ranger Chris Evans gives fishing pointers to kids at Yuba State Park.



Left: A Utah Field House of Natural History employee teaches a young visitor about dinosaurs.

Below: A rider at the Jordan River Off-Highway Vehicle Park catches some air on the motocross track.



2005/2006 HIGHLIGHTS

- **Resource Management Plans written** for Escalante, Bear Lake, and Gunlock state parks, and the Ross Creek area at Jordanelle.
- **Completed concrete walkway, day-use area, and restrooms** at Coral Pink Sand Dunes State Park.
- **Staff and volunteers performed 320 miles of trail maintenance**, and provided funding and support for over 1,000 miles of trail maintenance work completed by federal partners.
- **Mapped and installed signs for the Markagaunt and Paunsaugant trail systems.** Completed the mapping of the Garfield and Emery County Trail Systems.
- **Developed eight additional "One Day Ride" maps** on trail systems throughout the state.
- **Taught 5,443 Off-Highway Vehicle (OHV) riders** courses on safe and ethical riding practices.

SERVICES AND FUNCTIONS

Manages Utah's state park system, which includes operations, planning, and protection of heritage, scenic, and recreation parks.

•Grant Programs

Administers Land and Water Conservation Fund, non-motorized, and motorized trails grant programs.

•Off-Highway Vehicles

Administers summer and winter off-highway vehicle programs including education, trail maintenance, grant programs, user compliance, accident investigation, and search and rescue.

•State Boating Act

Administers the State Boating Act on Utah waters, which includes safety, education, and enforcement.

•Planning and Development

Guides short and long-term site management for each park to protect and interpret each park's natural and cultural resource base, ensure safe, enjoyable visitor experiences, provide for new visitor opportunities, and develop and enhance facilities to meet visitor needs.



Youth off-highway vehicle users receive training on safe and ethical riding.





Volunteers working to improve a section of the Bonneville Shoreline Trail.

ON WATERSHEDS...

"Water recreation is immensely popular in Utah. With recreational use on the state's precious watershed, there comes a responsibility of watershed stewardship. Managers and employees in the Division of State Parks and Recreation take this seriously. Multiple use of resources means balancing water recreation use on the many lakes and rivers and ensuring stewardship to protect water sources. Resource planning is an important component of the Division's role in protecting the State Parks today and for future generations. Every park has a Resource Management Plan that is shaped by that ethic and by public input, we invite all to attend public meetings, voice comment on plans, and be involved in the future of Utah's state parks."

Mary Tullius, Division Director.

REGIONAL OFFICES

NORTHEAST REGION

Jim Harland, region manager

S.R. 319, 777 West Box 3
Heber City, Utah 84032-0003
(435) 649-9109

NORTHWEST REGION

Jay Christiansen, region manager

1084 North Redwood Road
Salt Lake City, Utah 84116-1555
(801) 533-5127

SOUTHEAST REGION

Tim Smith, region manager

1165 South Highway 191, Ste. 7
Moab, Utah 84532-3062
(435) 259-3750

SOUTHWEST REGION

Rob Quist, region manger

585 North Main Street
Cedar City, Utah 84720-2643
(435) 586-4497



UTAH STATE PARKS

ANASAZI STATE PARK MUSEUM

Mike Nelson, Park Manager
(435) 335-7308

ANTELOPE ISLAND STATE PARK

Ron Taylor, Park Manager
(801) 773-2941

BEAR LAKE STATE PARK

Larry Gray, Park Manager
(435) 946-3343

CAMP FLOYD/STAGECOACH INN STATE PARK AND MUSEUM

Mark Trotter, Park Manager
(801) 768-8932

CORAL PINK SAND DUNES STATE PARK

Michael Franklin, Park Manager
(435) 648-2800

DEAD HORSE POINT STATE PARK

Lee Sjoblom, Park Manager
(435) 259-2614

DEER CREEK STATE PARK

Rick Redmon, park manger
(435) 654-0171

EAST CANYON STATE PARK

John Sullivan, Park Manager
(801) 829-6866

EDGE OF THE CEDARS STATE PARK MUSEUM

Teri Lyn Paul, Park Manager
(435) 678-2238

ESCALANTE PETRIFIED FOREST STATE PARK

Kendall Farnsworth, Park Manager
(435) 826-4466

FLIGHT PARK STATE RECREATION AREA

Eric Stucki, Area Manager
(801) 533-5127

FREMONT INDIAN STATE PARK AND MUSEUM

Bob Hanover, Park Manager
(435) 527-4631

GOBLIN VALLEY STATE PARK

Eugene Swalberg, Park Manager
(435) 564-3633

GOOSENECKS STATE PARK

Teri Lyn Paul, Park Manager
(435) 678-2238

GREAT SALT LAKE STATE MARINA

Bob Rosell, Park Manager
(801) 250-1898

GREEN RIVER STATE PARK

Eugene Swalberg, Park Manager
(435) 564-3633

GUNLOCK STATE PARK

Laura Melling, park manger
(435) 628-2255

HISTORIC UNION PACIFIC RAIL TRAIL

Mountain Trails Foundation, management
(435) 649-6839

HUNTINGTON STATE PARK

Dan Richards, Park Manager
(435) 687-2491

HYRUM STATE PARK

Lee Gyllenskog, Park Manager
(435) 245-6866

IRON MISSION STATE PARK MUSEUM

Todd Prince, Park Manager
(435) 586-9290

JORDAN RIVER OFF-HIGHWAY VEHICLE PARK

Bob Rosell, Park Manager
(801) 533-5424

UTAH STATE PARKS

JORDANELLE STATE PARK

Lyle Gingery, Park Manager
(435) 649-9540

KODACHROME BASIN STATE PARK

Aaron Farmer, Park Manager
(435) 679-8562

MILLSITE STATE PARK

Dan Richards, Park Manager
(435) 687-2491

OTTER CREEK STATE PARK

KayMar Willis, Park Manager
(435) 624-3268

PALISADE STATE PARK

Shon Tripp, Park Manager
(435) 835-7275

PIUTE STATE PARK

KayMar Willis, Park Manager
(435) 624-3268

QUAIL CREEK STATE PARK

Jon Wikan, Park Manager
(435) 879-2378

RED FLEET STATE PARK

Mike Murray, Park Manager
(435) 789-4432

ROCKPORT STATE PARK

Steve Hewson, Park Manager
(435) 336-2241

SAND HOLLOW STATE PARK

Laura Melling, Park Manager
(435) 680-0715

SCOFIELD STATE PARK

Dan Richards, park manager
(435) 448-9449

SNOW CANYON STATE PARK

Kristen Comella, Park Manager
(435) 628-2255

STARVATION STATE PARK

Mike Neally, Park Manager
(435) 738-2326

STEINAKER STATE PARK

Mike Murray, Park Manager
(435) 789-4432

TERRITORIAL STATEHOUSE STATE PARK MUSEUM

Gordon Chatland, Park Manager
(435) 743-5316

THIS IS THE PLACE HERITAGE PARK

private foundation director
(801) 582-1847

UTAH FIELD HOUSE OF NATURAL HISTORY STATE PARK MUSEUM

Steve Sroka, Park Manager
(435) 789-3799

UTAH LAKE STATE PARK

Ty Hunter, Park Manager
(801) 375-0731

WASATCH MOUNTAIN STATE PARK

Bruce Strom, Park Manager
(435) 654-1791

WILLARD BAY STATE PARK

Roland Bringham, Park Manager
(435) 734-9494

YUBA STATE PARK

Jeff Rasmussen, Park Manager
(435) 758-2611



DIVISION OF WATER RESOURCES

1594 W. North Temple, Suite 310
PO Box 146201
Salt Lake City, Utah 84114-6201
801-538-7230
801-538-7279 (fax)
www.water.utah.gov

EXECUTIVE TEAM

Dennis Strong - director
(801) 538-7250 dennisstrong@utah.gov

Eric Millis - deputy director/legislative liaison
(801) 538-7298 ericmillis@utah.gov

Todd D. Adams - assistant director
(801) 538-7272 toddadams@utah.gov

Geralee Murdock - administrative secretary
(801) 538-7235 geraleemurdock@utah.gov

Randy Staker - finance/accounting
(801) 538-7253 randystaker@utah.gov

Terri Jackson - budget & accounting officer
(801) 538-7257 terrijackson@utah.gov



*Left to Right: Todd Adams, Geralee Murdock, Eric Millis,
Terri Jackson, Dennis Strong, Randy Staker*

MISSION STATEMENT

Plan, conserve, develop and protect Utah's Water Resources

BOARD OF WATER RESOURCES

D. Brad Hancock, Chair
Daggett, Duchesne, Uintah counties

Paul McPherson, Vice-Chair
Utah, Juab, Wasatch counties

Ivan W. Flint
Weber, Davis, Morgan, Summit counties

Harold Shirley
Beaver, Garfield, Iron, Washington, Kane counties

Blair R. Francis
Box Elder, Cache, Rich counties

Warren Peterson
Millard, Sanpete, Sevier, Piute, Wayne counties

John R. Carman
Salt Lake, Tooele counties

Craig E. Johansen
Carbon, Emery, Grand, San Juan counties

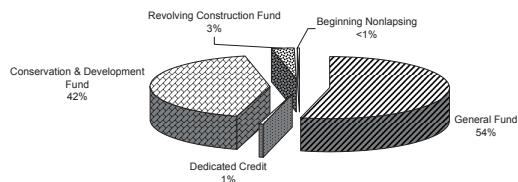
ON WATERSHEDS...

"This past legislative session a bill was passed directing a portion of the sales tax be used by the Division for large water development projects. Taking this action the legislature demonstrates a commitment to provide water for the future. While understanding the significant role water conservation will play the legislature also sees the need to continue the tradition of using our water wisely through the development of the Bear and Colorado Rivers. We at Water Resources are proud of our role in identifying and developing water for Utah's future."

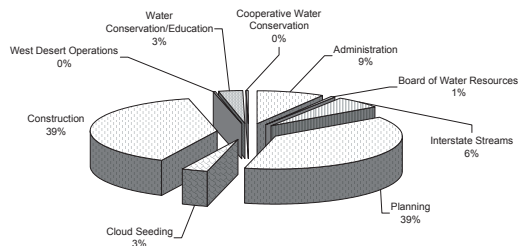
Dennis Strong, Division Director.

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE
\$4,906,051



EXPENDITURES



2005/2006 HIGHLIGHTS

- **Legislation passed giving the Board of Water Resources authority and funding to proceed with preconstruction activities** on the Lake Powell Pipeline and Bear River Development projects.

- **Dennis Strong appointed Division Director** to replace Larry Anderson who retired after directing the division for 20 years.

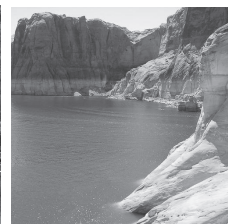
- **Board of Water Resources authorized or committed nearly \$170 million to 49 water projects.**

- **Seven dam safety compliance grants** were given totaling \$4.23 million.

- **Completed a water budget for Central Iron County Water.**

- **cooperated with the US Bureau of Reclamation on a water use & needs study for the Snyderville Basin.**

- **Published a special report on conjunctive management of surface water and ground water.**



Above: The 120 mile Lake Powell Pipeline will transport water from Lake Powell to Sand Hollow Reservoir near St. George.

Left: Engineer Lee Sporleder reviews plans for the Red Butte Dam project.

SERVICES AND FUNCTIONS

●Development and Conservation Funds

The Board of Water Resources administers three state water development and conservation funds.

●Technical Assistance

Provides technical water development and planning assistance to Utah water users.

●Water Planning

-Maintains the State Water Plan that describes Utah's current and long-term water-related needs.

-Inventories municipal and industrial water use and water-related land use.

-Performs water-use studies.

●Computer Applications

Develops Geographic Information System applications, water demand\supply and hydrologic models.

●Interstate Streams

The division director is Utah's interstate streams commissioner helping defend and protect Utah's right to develop and use its entitlements in the Colorado, Bear and Columbia rivers.

●Cloud Seeding

Promotes cloud seeding to augment natural snowpack.

●Water Education\Conservation

-Works with local water agencies, individuals and professional groups in developing and implementing water conservation programs to reduce per capita water use in Utah by at least 25 percent before 2050.

-Develops and distributes water education instructional materials to teachers and students in Utah's public schools.

UTAH WATER FACTS

13 Utah's annual precipitation in inches.
Utah is the nation's second-driest state.

7.5 Millions of acre-feet of water that can be stored in Utah's surface reservoirs:

6 Millions of acre-feet of water that Utahns use annually

●One acre-foot equals approximately 326,000 gallons, enough to fill a football field to a depth of one foot or to supply the water needs of an average family of five for a year.

●Water Volume Of Some Utah Lakes And Reservoirs

Bear Lake	1,420,000
Utah Lake	850,000
Great Salt Lake (at elv. 4200)	15,370,140
Strawberry	1,107,000
Flaming Gorge	3,789,000
Lake Powell	28,000,000
Jordanelle	320,000

●What Percentage Of Utah's Water Is Used For:

Agriculture and Irrigation?	87.3%
Public and Domestic?	9.2%
Commercial and Industries?	3.5%

●What Percentage Is:

Oceans	97.24%
Polar ice, glacier	2.15%
Groundwater	0.61%
Lakes	0.017%
Soil	0.005%
Atmosphere	0.0001%
Rivers	0.00001%

●How Much Water Does It Take To Produce

Typical breakfast	209 gallons
Typical lunch	1,427 gallons
Typical dinner	2,897 gallons



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DIVISION OF WATER RIGHTS

1594 W. North Temple, Suite 220
PO Box 146300
Salt Lake City, Utah 84114-6300
(801) 538-7240
Fax (801) 538-7467
www.waterrights.utah.gov

EXECUTIVE TEAM

Jerry Olds - state engineer/director
(801) 538-7240 jerryolds@utah.gov

Kaelyn Anfinson - administrative secretary/
legislative liaison
(801) 538-7370 kaelynanfinson@utah.gov

Lee Sim - assistant state engineer for field service
(801) 538-7380 leesim@utah.gov

Kent Jones - assistant state engineer for
application and records
(801) 538-7405 kentljones@utah.gov

Dave Marble - assistant state engineer for
dam safety
(801) 538-7376 davemarble@utah.gov

Boyd Clayton - assistant state engineer for
technical services
(801) 538-7390 boydclayton@utah.gov

MISSION STATEMENT

To administer the use of Utah's water based on established law and water rights by providing prompt, quality service and consideration for public interest and the environment.

ON WATERSHEDS...

"As Utah continues to grow, the demand for water will increase. I believe that water will be the resource that will shape our future. It is imperative that we manage our limited water supplies wisely and have an effective water right system that clearly defines each water right. The competition for water will intensify, a major challenge we will face is insuring we administer and manage our water resources in the best public interest, while respecting the property rights of individuals."

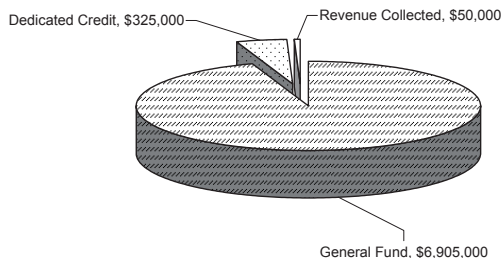
Jerry Olds, State Engineer/Division Director.



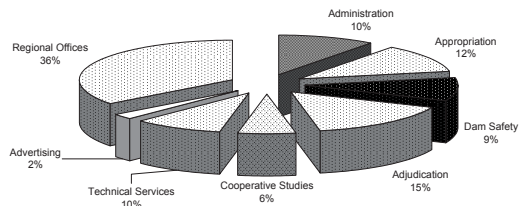
Left to Right: Boyd Clayton, Jerry Olds, Kaelyn Anfinson, Lee Sim, Dave Marble, Kent Jones

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE \$ 7,280,000



EXPENDITURES



2005/2006 HIGHLIGHTS

• **149 licensed well drillers and 122 registered operators.**

• Over 72% of wells drilled were 4 inches to 8 inches in diameter with an almost equal distribution of steel wells versus PVC wells.

• **Inspected over 300 wells** in the field for compliance with well drilling regulations.

• **Hot drilling areas** include counties of Washington, Tooele, Weber, Summit, Iron, Utah, Wasatch, Duchesne, Uinta, Grand, and San Juan.

• Hosted and trained an **Armenian delegation** of engineers, scientists, and contractors regarding well drilling and water rights.

• **Trained over 100 licensed drillers** and registered operators at two Division-sponsored continuing education seminars.

• Prepared an analysis of hydrology, inventoried existing Utah water rights, analyzed potential impacts that a Nevada-based project could have on **Snake Valley water users**, and has been participating with Utah's team which is negotiating with the State of Nevada to develop an agreement that will **protect Utah's water right interests**.



Above: Jim Wells uses a model to teach school kids about erosion and streamflow.

Left: Rick Wilde gathers data from a rural stream.

2005/2006 HIGHLIGHTS

- Proposed Determination Book 29-4 Box Elder County Division, Bear River Bay Subdivision was published and distributed.
- Proposed Determination Book 45-8 Ashley Division, South Upper and Highline Subdivision was published and distributed.
- Addendums to the 45-8 book and Book 15-3 Erda Subdivision was published and distributed.
- A total of 1,756 wells drilled and of those wells, 60% were heat exchange wells, 31% were domestic type, 4% were test wells, 3% were monitoring wells, 1% were public supply wells, and 1 % were cathodic protection and industrial wells.
- Drilling methods include Air Rotary (53%), Cable Tool (24%), Mud Rotary (20%), 2% Auger, and 1 % Other (e.g., flooded reverse, sonic, direct push).



Above: Construction at the Big Sand Wash dam.

Left: Drilling of water wells at Snow Basin to supply snow making machines.

SERVICES AND FUNCTIONS

•Water Right Applications (Kent Jones)

Administer water right applications including 1) appropriation of water, 2) change point of diversion, place of use of water, 3) diligence and underground water claims, 4) resume use of water, 5) segregate a water right 6) renovate or replace a well.

•Distribution and Measurement of Water (Lee Sim)

Administers 48 river distribution systems, overseeing 57 commissioners and deputy commissioners.

•Adjudication (Teresa Wilhelmsen)

Presents to the district court a proposed determination of water rights within hydrologic areas of the state where such investigations have been ordered by the court and works to obtain an adjudication order decreeing those water rights.

•Dam Safety (Dave Marble)

Inspects approximately 400 public and private dams yearly. Inspections are based on each dam's hazard rating for loss of life and property.

•Stream Channel Alterations (Dave Marble)

Administers natural stream alterations under terms of the Utah Code and a general permit from US Army Corps of Engineers.

•Geothermal (John Solum)

Administers use of geothermal resources in the state. Inspects facilities and monitors pressure tests.

•Well Drilling Regulations and Licensing (Jim Goddard)

Oversees licensing and regulation of water well drillers in the state.

•Water Resources Studies (Boyd Clayton)

Collects water resources data trends in groundwater levels, streamflow discharge and water use throughout the state. Performs studies to determine water availability and management alternatives.

REGIONAL OFFICES

NORTHERN REGIONAL OFFICE

Bob Fotheringham, regional engineer

1780 North Research Parkway, Suite 104

North Logan, Utah 84341

(435) 752-8755

bobfotheringham@utah.gov

WEBER RIVER/WESTERN DESERT REGIONAL OFFICE

Ross Hansen, regional engineer

1594 W. North Temple, Suite 220

PO Box 146300

Salt Lake City, Utah 84114-6300

(801) 538-7397

rosshansen@utah.gov

UTAH LAKE/JORDAN RIVER REGIONAL OFFICE

John Mann, regional engineer

1594 W. North Temple, Suite 220

PO Box 146300

Salt Lake City, Utah 84114-6300

(801) 538-7240

johnmann@utah.gov

EASTERN REGIONAL OFFICE

Bob Leake, regional engineer

State and County Building

152 E 100 N

Vernal, UT 84078-2126

(435) 781-5327

bobleake@utah.gov

SOUTHEASTERN REGIONAL OFFICE

Marc Stilson, regional engineer

453 S Carbon Avenue

P.O. Box 718

Price, UT 84501-0718

(435) 637-1303

marcstilson@utah.gov

SOUTHERN REGIONAL OFFICE

Kirk Forbush, regional engineer

130 N Main Street

P.O. Box 664

Richfield, UT 84701-0664

(435) 896-4429

kirkforbush@utah.gov

SOUTHWESTERN REGIONAL OFFICE

Kurt Vest, regional engineer

585 N Main Street

P.O. Box 506

Cedar City, UT 84721-0506

(435) 586-4231

kurtvest@utah.gov



Left: Cedar Fort well valve spouts water.

Below: A Snake Valley windmill stands ready to pump water to crops and livestock.





DIVISION OF WILDLIFE RESOURCES

1594 W. North Temple, Suite 2110
PO Box 146301
Salt Lake City, Utah 84114-6301
801-538-4700 801-538-4709 (fax)
www.wildlife.utah.gov

EXECUTIVE TEAM

Jim Karpowitz - director
(801) 538-4702 jimkarpowitz@utah.gov

Cindee Jensen - deputy director
(801) 538-4734 cindeejensen@utah.gov

Alan Clark - assistant director
(801) 538-4708 alangclark@utah.gov

Mike Canning - legislative liaison
(801) 538-4716 mikecanning@utah.gov

Larry Dalton - conservation/outreach
(801) 538-4876 larrydalton@utah.gov

Thu Vo - executive secretary
(801) 538-4705 thuvo@utah.gov

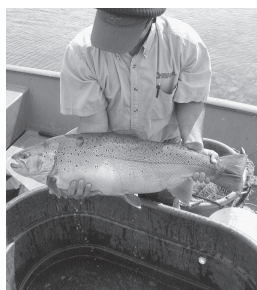
Becky Johnson - administrative secretary
(801) 538-4703 beckyjohnson@utah.gov



From left: Cindee Jensen, Thu Vo, Jim Karpowitz, Larry Dalton, Mike Canning, Becky Johnson, Alan Clark

MISSION STATEMENT

To serve the people of Utah as trustee and guardian of the state's wildlife, and to ensure its future and values through management, protection, conservation and education.



Left: A 21 lb. brown trout is briefly studied at Jordanelle. Above: Putting a collar on a Rocky Mtn. Bighorn Sheep before it is released in the Mt. Nebo area.

UTAH WILDLIFE BOARD

Jim Bowns, Chair
Cedar City/Southern

Richard Diamond
Ogden/Northern

Keele Johnson
Blanding/Southeastern

Rick Woodard
Provo/Central

Paul Niemeyer
Richfield/Southern

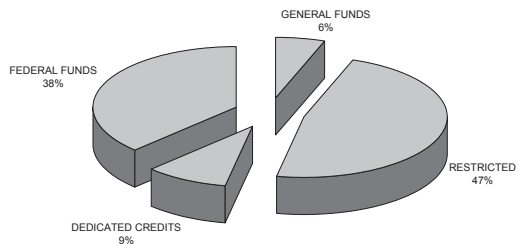
Allan Smith
Duchesne/Northeastern

Lee Howard
Salt Lake City/Central

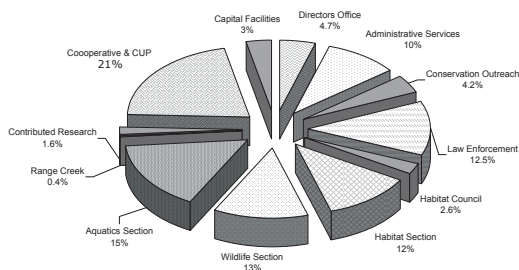
Jim Karpowitz,
Executive Secretary
(801) 538-4702

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE \$52,630,842



EXPENDITURES



2005/2006 HIGHLIGHTS

- The division is currently developing a **new agency strategic plan** under Director Karpowitz's leadership. Efforts are underway to incorporate the Governor's Balance Scorecard Initiative for implementation in 2007.
- The division completed the final phase of the online hunting and fishing license sales system, which **links the customer home transaction system to the sales system** used by license agents and division offices. **This makes sales data more accurate** and also allows people to buy limited quota licenses from home.
- A **new accounting system** was implemented by the state that brought new automation processes online. This new system was implemented within the division in a manner that kept all business functions flowing smoothly.
- Began process of revising the statewide elk management plan by reconvening the **citizen-based elk planning committee**.



Below: Grey Wolf Mountain pinyon/juniper habitat improvement project.

Left: Spring rotenone treatment at Panguitch Lake eliminates illegally introduced fish.

Lower Left: Justin Hart, SE region biologist, holds large splake caught at Joe's Valley last winter.



2005/2006 HIGHLIGHTS

•**Utah's hatcheries stocked 8,775,438 fish** (822,300 pounds) into the state's waters last year. Most of these fish were trout, but some were warm water sport fish and others were sensitive species (i.e. June Sucker, bonytail chub). The Mammoth Creek hatchery reconstruction was completed. Mantua and Whiterocks hatcheries are in the final phases of reconstruction and should be completed by next year. Total reconstruction of the Midway hatchery will begin in January, 2007.

•Three chemical renovation projects were completed this year. **Panguitch Lake was treated in May, 2006 to remove an overabundance of Utah chub. It was immediately stocked with catchable-sized rainbow trout.** Willow Creek (Book Cliffs) and Diamond Fork headwaters were treated to remove non-native trout, and will be subsequently stocked to restore the native cutthroat trout.

•**A major effort was made to increase fishing license sales in Utah**, focusing on the new 365-day fishing license. This included increased statewide TV and newspaper coverage of good fishing in Utah, follow-up surveys to lapsed anglers, and billboards with the "Take Me Fishing" logo located along the Wasatch Front. The Division also initiated a new Fishing Hot Spots website to help guide anglers to good fishing opportunities. The customer friendly website, www.wildlife.utah.gov, includes maps, locations, techniques, species available and camping/boating amenities.

•**A significant conservation easement was donated to the Division** by the owner of Victory Ranch along the upper Provo River (above

Jordanelle Reservoir). **The easement, around 600 riparian acres, will protect the river corridor** and benefit Columbia spotted frog and other riparian species. 2) An intermountain state agreement was signed to protect three fish species endemic to the Colorado River. The species are round tail chub, flannel mouth sucker, and blue head sucker. The purpose of the agreement is to develop a database that will help manage the state's manage these three species throughout the Colorado River system.

•Worked with the inter-agency Utah Partners for Conservation and Development to **restore 122,405 acres of shrubsteppe habitat** as part of the Utah Watershed Restoration Initiative.

•**Expanded the Utah Watershed Restoration Initiative** beyond shrubsteppe habitats into other habitat types, such as aspen, wetlands, and riparian areas.

•**Created hunt boundary maps** for all Utah hunts. These maps are **available to the public on the DWR web site.**

•Almost 60 Rocky Mountain bighorn sheep were transplanted from Antelope Island to the Stansbury Mountains.

•Completed spraying approximately 2000 acres of invasive phragmites on state waterfowl management areas.

•**Moved approximately 1000 geese out of urban areas** within Salt Lake County as part of a three-year experiment to evaluate the effectiveness of translocation in reducing nuisance problems.





Scott Root

• **Officers contacted 162,289** citizens in the course of their duties in 2005 and checked 99,501 licenses of sportsmen and women participating in wildlife related activities.

• **Officers discovered and dealt with 5,000 violations** of Utah laws.

• **Television, radio and print media coverage reached most of Utah's 2.4 million people**, while the division's Internet site received over a billion hits to the home page (www.wildlife.utah.gov), where constituents can buy licenses and learn about wildlife conservation.

• **A huge marketing effort**, involving most employees, to promote sport fishing opportunities was highly successful, resulting in nearly **\$1 million in additional revenue** to the state of Utah.

• **Outreach personnel** created wildlife and fish displays and participated in many wildlife expos and events, county fairs and the state fair in Salt Lake City. The Wildlife Resources building at the Utah State Fair Park attracted nearly **310,000**

visitors. Outreach personnel also conducted hundreds of career day and wildlife programs at Utah schools and universities.

• **Education and Watchable Wildlife programs** hosted and/or participated in field trips, events and festivals across the state, attracting tens of thousands of participants. They included: Bald Eagle Day, Kokanee Salmon Day, Raptor Watch Day, Flaming Gorge Osprey Watch, the Great Salt Lake Bird Festival, Delta City's Snow Goose Festival, Hyrum City's Hardware Ranch Elk Festival, St. George Winter Wildlife Festival and Moab City's Desert Bighorn Sheep Festival.

• **Over 9,000 volunteers last year donated time and resources** valued at more than \$1.2 million for wildlife habitat restoration, conservation and education projects.

• **The Becoming an Outdoors Woman project, conducted with volunteers, continues to recruit women** into the ranks of wildlife-associated outdoor enthusiasts, hosting events in nearly every month of the year.

SERVICES AND FUNCTIONS

Licenses

Sells hunting and fishing licenses.

Certificates of Registration

Issues licenses and certificates of registration to falconers, private pond owners, individuals who wish to own exotic pets, etc.

Fisheries Experiment Station

Monitors Utah's wild fish populations and the division's fish hatcheries. Provides hatcheries with disease treatments.

Hatcheries

Owns and operates 10 state fish hatcheries.

Hunter Education

Trains young adults in safe handling of firearms. Hunter education is a prerequisite to purchase hunting licenses. The Lee Kay Center for Hunter Education, (801) 972-1326, and the Cache Valley Hunter Education Center, (435) 753-4600, provide hunter education courses and public shooting ranges.

Publications

Produces publications such as *Wildlife News* and *Wildlife Review* with news, information and education for hunters, anglers and others. This includes publication of proclamations of the Wildlife Board that contain rules and regulations for wildlife associated recreation.

Volunteer Program

Supplements division programs while providing Utah's public an opportunity for hands-on experiences with wildlife biology, habitat restoration, and education.

Web Site

Provides many online services. Customers may buy hunting and fishing licenses and get a wealth of information about wildlife and wildlife recreational opportunities at:
www.wildlife.utah.gov.

Radio Show

Produces weekly radio show, "Discover Utah Wildlife," broadcast on many stations throughout the state.

Project WILD

Administers Project WILD, a wildlife education program that trains teachers, resource agency personnel, home school educators, scout leaders and other youth group leaders how to teach children about wildlife and the environment.

Natural Heritage Program

Identifies and monitors sensitive plant and animal species, and creates a database for making natural resource decisions.

Community Fisheries Program

Partners with local governments to provide urban and community fishing opportunities for Utah youth and families statewide. Offers fishing classes for urban youth.

Dedicated Hunter Program

Provides additional hunting opportunities for Utah deer hunters who perform volunteer service benefiting wildlife, valued at over \$1 million dollars per year.

ON WATERSHEDS...

"Healthy watersheds are essential for robust and abundant fish and wildlife populations. Virtually all wildlife and fish species depend on clean water and the riparian corridors associated with them for life. Even so-called desert species must have clean water to survive. Through our aggressive Habitat Initiative program, we are working hard to conserve and rehabilitate essential watersheds for fish and wildlife throughout the state. "

Jim Karpowicz - Division Director.

REGIONAL OFFICES

NORTHERN REGION (OGDEN)

Ron Hodson, regional supervisor
(801) 476-2740

NORTHEASTERN REGION (VERNAL)

Kevin Christopherson, regional supervisor
(435) 781-9453

CENTRAL REGION (SPRINGVILLE)

John Fairchild, regional supervisor
(801) 491-5678

SOUTHERN REGION (CEDAR CITY)

Doug Messerly, regional supervisor
(435) 865-6100

SOUTHEASTERN REGION (PRICE)

Derris Jones, regional supervisor
(435) 636-0260

REGIONAL ADVISORY COUNCILS

NORTHERN REGION

Ernie Perkins, chair
(801) 544-5123
erperkins@comcast.net

NORTHEASTERN REGION

Clay Hamann, chair
(435) 789-7237
clhamann@easilink.com

CENTRAL REGION

Ed Kent, chair
(801) 573-0770

SOUTHERN REGION

Mike Small, chair
(435) 673-0710
utahsmalls@msn.com

SOUTHEASTERN REGION

James Gilson, chair
(435) 381-2883
jtjilson@emerytelecom.net



UTAH GEOLOGICAL SURVEY

1594 W. North Temple, Suite 3110
PO Box 146100
Salt Lake City, Utah 84114-6100
801-537-3300
801-537-3400 (fax)
www.geology.utah.gov

EXECUTIVE TEAM

Richard G. Allis - state geologist/director
(801) 537-3305 rickallis@utah.gov

Kimm M. Harty - deputy director
(801) 537-3313 kimmharty@utah.gov

John Kingsley - associate director
(801) 537-3309 johnkingsley@utah.gov

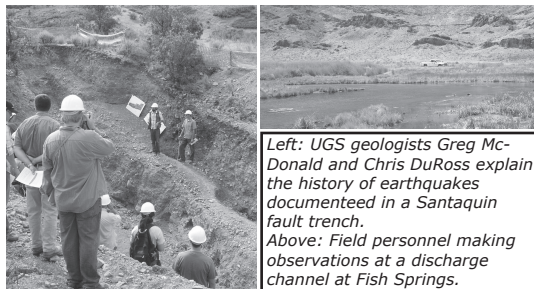
Jo Lynn Campbell - administrative secretary
(801) 537-3305 jolynncampbell@utah.gov



Left to right: Rick Allis, Jo Lynn Campbell, John Kingsley, Kimm Harty

MISSION STATEMENT

The Utah Geological Survey is an applied scientific agency that creates, interprets, and provides information about Utah's geologic environment, resources, and hazards to promote safe, beneficial, and wise use of land.



Left: UGS geologists Greg McDonald and Chris DuRoss explain the history of earthquakes documented in a Santaquin fault trench.
Above: Field personnel making observations at a discharge channel at Fish Springs.

UTAH GEOLOGICAL SURVEY BOARD

Charles Semborski, Chair
Price/Coal

Stephen Church, Vice Chair
Salt Lake City/Oil & Gas

Robert Robison
Salt Lake City/Industrial Minerals

David Simon
Salt Lake City/Engineering Geology

Kathleen Oschsenbein
Roy/Public-at-Large

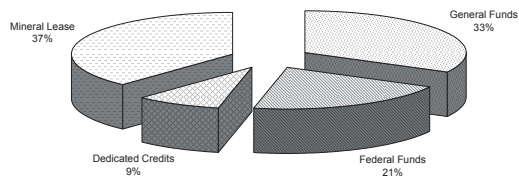
Geoffrey Bedell
Oakley/Metallic Minerals

Jack Hamilton
Salt Lake City/Scientific

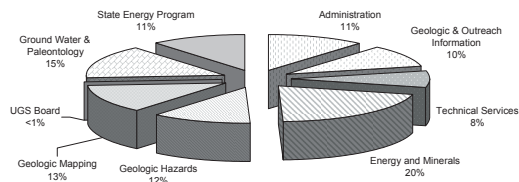
Kevin Carter, ex officio
School and Institutional Trust Lands
Administration

FISCAL YEAR ENDING JUNE 30, 2006 (UNAUDITED)

REVENUE
\$3,112,154



EXPENDITURES



2005/2006 HIGHLIGHTS

Geologic Hazards Program

- Northern Utah had another active spring landslide season in 2006; the GHP assisted local governments with emergency response, movement monitoring, and hazard assessment, and responded to an increased number of requests for subdivision reviews.
- The GHP worked closely with the U.S. Geological Survey to ensure the next edition of International Building Code seismic-hazard maps accurately depict earthquake conditions in Utah and the intermountain west.

State Energy Program

- The State Energy Program smoothly transitioned into UGS, maintaining its public outreach and information activities while expanding its anemometer loan program with the additional of new 50-meter towers.
- SEP also oversaw the installation of a 1.28 kilowatt solar demonstration project at DNR headquarters in Salt Lake City.



Above: UGS Geologist Greg McDonald using GPS equipment to monitor movement of a Davis County landslide.
Left: UGS Geologist Francis Ashland discusses movement of a landslide at Cedar Hills. Four townhomes were demolished as a result of the slide damage.

2005/2006 HIGHLIGHTS

Geologic Mapping Program

- The Mapping Program released 17 geologic maps to the public, including four new full-color published geologic maps, two colored interim 30'x60' quadrangle geologic maps, GIS database files of two 30'x60' quadrangles, and published and open-filed maps of several 7.5' quadrangles.

Ground Water and Paleontology Program

- The Utah Geological Survey began construction of a digital ground-water flow model to help manage ground-water resources in the rapidly growing Eagle Mountain area of Utah County.

Geologic Outreach and Information Program

- Public inquiries answered nearly doubled this year, increasing from 3200 to 5900.
- Number of teachers attending earthquake hazards workshops increased to 42.

Energy and Minerals Program

- Published new resource maps of "Uranium and Vanadium in Utah" (Map 215DM), and a "Coal Resource Map of Utah" (Map 226 DM).
- Published UGS Special Study 114, a coal-availability study of the southern Wasatch Plateau coalfield.
- Published four gas research grant reports as UGS Open-File Reports 458 through 461, covering topics such as gas resources in shale reservoirs of Utah, and in the Entrada, Mancos, and Mesaverde sandstone reservoirs of the Uinta Basin.



Water well established by the Utah Geological Survey to monitor ground-water quality in Castle Valley, Grand County. The La Sal Mountains watershed in the background is the source of recharge to the Castle Valley aquifers.

SERVICES AND FUNCTIONS

Public Inquiry

Provides information on Utah geology and geologic issues to governments, educators, industry, and the public. Offers instruction to teachers on aspects of geology.

Natural Resources Map & Bookstore

Offers selection of publications and maps on Utah geology and other natural resource topics. Maintains an inventory of topographic maps for all of Utah and parts of surrounding states.

Department of Natural Resources Library

Houses reference materials on Utah geology, wildlife, water and energy resources and full-size geophysical logs.

Core Research Center

Maintains facilities to store and examine rock core, petroleum samples, coal and geologic samples from Utah. Provides core photography, sample preparation, data searches and workshops.

Web Site

Provides access to databases and bibliographies on 1) energy and mineral resources, 2) geothermal wells and springs, 3) coal quality, 4) oil and gas fields and wells, 5) geophysical well logs, 6) national uranium resource data and 7) geologic maps and hazards.



Field personnel taking spring flow rates from Courthouse Wash Boundary Spring in Arches National Park.



Geologic-Hazard Assistance

Assists governments in responding to geologic-hazard emergencies. Reviews geologic-hazard reports for local governments and school districts. Investigates geologic hazards and prepares geologic-hazards maps for local governments.

Water Resource/Environmental Evaluations

Evaluates ground-water resources. Protects drinking water supplies by investigating environmental impacts of waste disposal and storage and treatment facilities for state, federal and local governments, and agencies.

Energy and Mineral Evaluations

Investigates energy and mineral resources of counties, forests, school trust and sovereign lands for federal, state and local governments and agencies.

Paleontological Services

Evaluates paleontological sites. Issues paleontological excavation permits.

Industry Cooperatives

In cooperation with industry, oversees improved oil recovery research projects in the Uinta and Paradox basins that have significant local and national application.

Geologic Mapping

Provides geologic maps and reports that describe stratigraphy, structure, geologic hazards and geologic resources.

State Energy Program

-Anemometer Loan Program: Loans towers and instruments for wind measurement to assess wind resources in potential wind energy areas. Also assesses wind resources on state-owned lands in promising areas.

-Public Building Energy Efficiency Pilot Program: Provides grants of up to \$15,000 for public schools and local governments to upgrade the energy efficiency of existing public buildings.

REGIONAL OFFICE

CEDAR CITY

Bill Lund, regional manager

88 East Fiddler Canyon Road
Suite C, Cedar City, Utah 84720
(435) 865-9041 (Lund)
(435) 865-9035 (Blackett)
(435) 865-9037 (Fax)

ON WATERSHEDS...

"The ground-water section of the Utah Geological Survey (UGS) is the state's main expertise on hydrogeology. In recent years the UGS has received increasing requests for information about, and studies on ground water issues around the state. The ground water in our strategic aquifers mostly originated in the higher topography of the watersheds. Activity and development in these areas can have long term consequences for both ground-water quality and quantity. In addition, the steep terrain that is often a characteristic of Utah's watersheds are prone to geologic hazards such as landslides, debris flows, and rock falls. Sustaining our ground water and avoiding geologic hazards are a major concerns as Utah's rapid growth spreads from the valley floors onto the mountain flanks."

Rick Allis, Division Director.



UGS geologist Bob Biek (right), state paleontologist Jim Kirkland (left), and New Mexico Museum of Natural History geologist Spencer Lucas (center) examine the Whitmore Point Member of the Moenave Formation near the site west of Kanab where it was first defined.



